

Work Order ID 107834

Thursday, October 03, 2013 1:11:46 PM

\*107834\*

Page 1

Item ID: D4026-1

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Item Name: Fuel Gauge

(1)

Start Date: 10/3/2013 Start Qty: 6.00

\*R\*

Cust Item ID:

Required Date: 10/11/2013 Req'd Qty: 6.00

\*R\*

Customer:

Reference:

Approvals: Process Plan: Mf Date: 13-10-03 Tooling: Date: Run Start \*NR1\*  
QC: Date: SPC (Y/N): Date: Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
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D4026	A
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100 0.00

\*100\*

Purchasing

Purchasing

Memo

Issue P/O: 21943

Purchase part as per Dwg D4026

Part #: FL-100-R

Possible Supplier: AIRCRAFT SPRUCE

Material release note required

L 13/11/04 (2) 1

110

Receive & Inspect for Damage & Mat'l Certs 0.00

\*110\*

Packaging

Packaging

Memo

0.00

13/11/12 C

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## **WORK ORDER NON-CONFORMANCE / UPDATE**

**QA Closed:**

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>		Engineering <input type="checkbox"/>		
				Scrap <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>		Quality <input type="checkbox"/>		
				Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>		Other <input type="checkbox"/>		
				Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>				
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance		Initial Chief Eng	Action Description		Sign & Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
Bending	Bend	Grain	Ovalized	Pressure/Forced							
Centre Not Concentric to O/S	BOM/Route	Hardware	Over/Under tolerance	Temperature/Cure							
Cracks	Broken/Damaged	Inspection Incomplete	Part Incorrect								
Crushed/Crimped	Burrs	Instructions Incomplete/Unclear	Part Lost/Missing								
Cuffs	Contamination	Maintenance	Part Moved								
Heat Treat	Countersink	Mislabeled	Positioned Wrong								
Inspection Strip in Tube	Cut Too Short	Misread	Power Loss/Surge								
Ripples in Bend	Drill Holes	Offset	Other								
Torque Waves in Extrusion	Drawing	Out of Calibration									
Turning Sequence	Finish	Out of Sequence									
Wave/Twist in Tube	Folio	Outside Dimensions									

Work Order ID 107834

\*107834\*

Thursday, October 03, 2013 1:11:46 PM

Page 2

Item ID: D4026-1

Accept

\*N900040100\*

Setup

Start

\*NS1\*

Revision ID:

Item Name: Fuel Gauge

Stop

\*NS2\*

Start Date: 10/3/2013 Start Qty: 6.00

\*6\*

Cust Item ID:

Required Date: 10/11/2013 Req'd Qty: 6.00

\*6\*

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run

Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/  
Work Center ID  
120  
**\*120\***

QC  
Quality Control

Operation  
Description  
QC6- Inspect dimensions to drawing

Set Up/  
Run Hours  
0.00

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

27  
9-89

B11119

130

Packaging  
Packaging

Identify as per dwg & Stock Location: GA

0.00

1X

DAS  
28  
9-89

13-11-19

140

QC  
Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

13/11/21 J

NF

13-11-20

NCR: Yes / No

DQA: Date:

# **WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: Date:

Work Order: _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
				Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/>	Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/>	Water Jet <input type="checkbox"/> Prod. Eng. Coor. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/>	Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/>			
Part No. _____											
NCR No. _____											
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											
FAULT CATEGORY											
Landing Gear				General							
Bending				Bend <input type="checkbox"/>	Grain <input type="checkbox"/>			Ovalized <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/>		
Centre Not Concentric to O/S				BOM/Route <input type="checkbox"/>	Hardware <input type="checkbox"/>			Over/Under tolerance <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/>		
Cracks				Broken/Damaged <input type="checkbox"/>	Inspection Incomplete <input type="checkbox"/>			Part Incorrect <input type="checkbox"/>	Weld <input type="checkbox"/>		
Crushed/Crimped				Burrs <input type="checkbox"/>	Instructions Incomplete/Unclear <input type="checkbox"/>			Part Lost/Missing <input type="checkbox"/>	Wrong Stock Pulled <input type="checkbox"/>		
Cuffs				Contamination <input type="checkbox"/>	Maintenance <input type="checkbox"/>			Part Moved <input type="checkbox"/>			
Heat Treat				Countersink <input type="checkbox"/>	Mislabeled <input type="checkbox"/>			Positioned Wrong <input type="checkbox"/>			
Inspection Strip in Tube				Cut Too Short <input type="checkbox"/>	Misread <input type="checkbox"/>			Power Loss/Surge <input type="checkbox"/>			
Ripples in Bend				Drill Holes <input type="checkbox"/>	Offset <input type="checkbox"/>						
Torque Waves in Extrusion				Drawing <input type="checkbox"/>	Out of Calibration <input type="checkbox"/>						
Turning Sequence				Finish <input type="checkbox"/>	Out of Sequence <input type="checkbox"/>						
Wave/Twist in Tube				Folio <input type="checkbox"/>	Outside Dimensions <input type="checkbox"/>						

# Picklist Print

Thursday, October 03, 2013 1:11:45 PM

Page 1

Work Order ID: 107834

Parent Item: D4026-1

Parent Item Name: Fuel Gauge

Start Date: 10/3/2013

Required Date: 10/11/2013

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A 10.05.17 as per ECN10-562 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
FL-100-R Fuel Gauge		Purchased	No			110	Each	0.0000	1	X 1		10/3/2013	6

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: Date:

Work Order: _____			DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. _____	Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>				
NCR No. _____	Use-as-is <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>					
	Work Order Update <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector	
Doc/Data										
Equip/Tooling										
Operator										
Material										
Setup										
Other										
Process										
Supplier										
Training										
Unapproved										
FAULT CATEGORY										
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions						
				<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other						

8

7

6

5

4

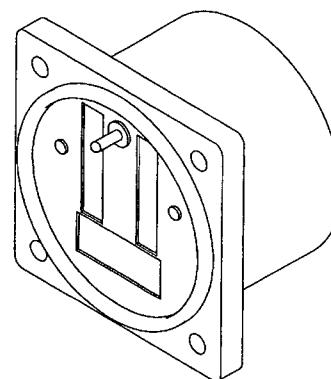
3

2

1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4026-1	FL-100-R-JCA

## SPECIFICATION CONTROL DRAWING



MF  
13-10-03  
#102834

DART PART NUMBER	MANUFACTURER	MANUFACTURER PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	OPERATING TEMPERATURE	POWER CONSUMPTION	SENSORS SUPPORTED	OPERATING VOLTAGE
D4026-1	AEROSPACE LOGIC INC.	FL-100-R	AIRCRAFT SPRUCE AND SPECIALTY	10-00304	-15°C TO +55°C 5°F TO 131°F	450 mA MAX (DAY OPERATION) 60mA MIN (NIGHT OPERATION)	RESISTIVE SENSORS OF ALL TYPES R <sub>MAX</sub> = 300 OHMS R <sub>MIN</sub> = 0 OHMS	6 - 32 VDC

### D4026-1 FUEL GAUGE

RELEASED  
2010-05-05  
MF

NOTES:  
 1) MATERIAL: N/A  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
 6) IDENTIFICATION: N/A  
 7) WEIGHT: N/A

DESIGN	<i>E</i>	DART AEROSPACE LTD
DRAWN	<i>E</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>B</i>	REV. A
MFG. APPR.	<i>E</i>	DRAWING NO. D4026
APPROVED	<i>E</i>	SCALE NTS
DE APPR.	<i>E</i>	TITLE FUEL GAUGE
DATE	10.02.05	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY OTHER PURPOSE OR DISCLOSED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD

8 1 7 6 5 4 3 2 1

NCR: Yes / No

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

# **WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION		AGAINST DEPARTMENT/PROCESS						
				Rework Scrap Use-as-is Work Order Update	Skid-tube Machining Thermoforming Large Fab	Crosstube Small Fab Finishing Composite	Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier	Engineering Quality Other				
Root Cause		Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data												
Equip/Tooling												
Operator												
Material												
Setup												
Other												
Process												
Supplier												
Training												
Unapproved												
FAULT CATEGORY												
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube				<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio		<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled	



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO21943**

Purchase Order Date 11/4/2013

PO Print Date 11/19/2013

Page Number 1 of 1

Order From : VC-ROY001

RBC ROYAL BANK - VISA  
PAYMENT CENTRE, PO BOX 4016, STAT. A  
TORONTO, ON M5W 1X6  
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

*REVISED*

Contact Name

Buyer Chantal Lavoie

Vendor Phone

Customer POID

Ship To Contact

Customer Tax # 10127-2607

Ship To Phone

Terms COD

Ship Via:

Currency CAD

Ship Acct:

FOB Destination-Collect

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	FL-100-R	Fuel Gauge	11/8/2013 Yes	11/8/2013	1.00 Each	\$595.00	\$595.00
		AS PER DWG D4026 REV. A B107834					

Line Total: \$595.00

PO Total: \$595.00

PO Instructions: AIRCRAFT SPRUCE  
VISA; 4516 0500 0527 9033  
EXP: 10/16 CID:351

*CD*

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required  YES  NO

PST# 6122-5207

# AIRCRAFT SPRUCE CANADA

BRANTFORD MUNICIPAL AIRPORT

150 AVIATION AVENUE, BRANTFORD, ON N3T 5L7  
ADMINISTRATION (951) 372-9555 • FAX (519) 759-8964  
CALL TOLL FREE (877) 795-2278 • STORE (519) 759-5017

333088

AIRCRAFT AEROSPACE, LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A1K7  
CANADA

PLEASE RETURN THIS PORTION

WITH YOUR REMITTANCE

GSTW 887652100 P.O. BOX 3731 • BRANTFORD PAGE 1 8865202

CUST # 333088

AWB # 577549352093

S H DART AEROSPACE, LTD

1270 ABERDEEN

HAWKESBURY, ON K6A1K7

TO

NOTE: ANY SHORTAGES MUST BE REPORTED WITHIN 10 DAYS.

CANADA

BACKORDERED PRODUCTS WILL SHIP AS SOON AS AVAILABLE

ORDER NO.	INVOICE NO.	CUSTOMER P.O. NO.	SHIP VIA	TERMS	DATE SHIPPED	
6078687	8865202	21943	FEDEX PRIORITY	CREDIT CARD	11/18/13	
AMOUNT	DESCRIPTION			DISC.	UNIT PRICE	EXTENSION

THANK YOU FOR YOUR ORDER. PLEASE CALL ME DIRECTLY AT  
EXT 825 THE NEXT TIME YOU WISH TO PLACE AN ORDER WITH  
AIRCRAFT SPRUCE. MARY GARCIA 972-477-7823  
10-60364 ASL DUAL FUEL LEVEL 0-300 OHMS FL

595.000 595.00

SUBTOTAL	TAX	MISC. CHARGE	FREIGHT	PAID WITH ORDER	BALANCE DUE
595.00	HST 77.35	0.00	0.00	-672.35	CAD 0.00

**TERMS OF LIABILITY AND INDEMNIFICATION AGREEMENT**-Inasmuch as Aircraft Spruce & Specialty Company has no opportunity to supervise the installation, or maintenance of parts supplied by Aircraft Spruce & Specialty Company and accepting the parts, agrees that all materials purchased will be used solely at purchaser's risk and that the purchaser will indemnify and hold Aircraft Spruce & Specialty Company and its owners and employees, free and harmless from all loss, liability, and damage resulting from claims brought by reason of any alleged failure or defect of any parts or parts supplied by Aircraft Spruce & Specialty Company. If this agreement is unacceptable to purchaser, the purchaser will immediately return in new condition all products listed on this invoice to Aircraft Spruce for refund of purchase price.